

## DRAFT

Page 1 of 6 WELL CONSTRUCTION LOG

<sup>2</sup> age	1 of 6	WE	ELL CON	ISTRUCTION LOG				
WELL		LATITUDE		LONGITUDE				
	CFMW-016a CT NO./NAME	Not Measure	ea .	Not Measured LOCATION				
	0001Y / CFAC RI/F	S Phase 1		2000 Aluminum Drive				
	OVED BY	LOGGED BY						
L. Jei	<b>1SEN</b> NG CONTRACTOR/DRIL	A. Hoffmann		Columbia Falls, Montana GEOGRAPHIC AREA				
	ade Drilling / Carlo			GLOGRAFIIC AREA				
DRILL	BIT DIAMETER/TYPE	BOREHOLE DIAME	ETER	DRILLING EQUIPMENT/METHOD	SAMPLING M		START-FINISH DATE	
	Sonic Bit	6-inches		Truck Mounted / Rotosonic	Continuo	is Core	6/21/16-6/25/16	
	3 MAT/DIA. <b>40 PVC / 2-inch</b>	SCREEN: TYPE Slotted	<b>d</b> NAAT	SCH 40 PVC TOTAL LENGTH 5	0 # DIA	2-inch	SLOT SIZE 20-Slot	
3011	40 F V G / Z-IIICII	THE SIDLE	u IVIA I	. SCH 40 FVC TOTAL LENGTH 5.	.O IL DIA.	2-111011	SLOT SIZE 20-SIOL	
	00.111	1 DI						
Donth	Stick Up	J-Plug	Graphic		Blow	PID		
Depth, feet		7	Log	Visual Description	Counts per 6"	Values (ppm)	REMARKS	
	Cement/	Concrete	<u> </u>	ark brown, fine to coarse SAND, some	pero	0.0	6 ft recovery	
	ŽXXX.	SOOF	fil	ne to medium Gravel, trace silt; moist	`	0.0	Sample CFMW-016a 0-0.5	
	<b>155</b> 6	<b>1</b> 002		rown, fine to coarse SAND, some fine to	_	0.6	collected	
	<b>1669</b>		• . • . • . • . • . • . • . • . • . • .	parse Gravel, trace silt; moist			Sample CFMW-016a 0.5-2 collected	•••
5				roy fine to cooree CAND				5
				rey, fine to coarse SAND, some Silt, little ne to medium Gravel; wet, loose		0.8		
			Ti	annish brown, coarse SAND, some fine to			8 ft recovery	
		1995		edium Gravel, little fine to medium Sand,		0.1		
	<b>50</b> 2		u	ace silt; wet				
10	1662			ark grey, fine to medium SAND, some Sill	t			10
				nd fine to coarse Gravel, trace cobble; et, loose				
				,				
	<del>)</del>					0.5	Sample CFMW-016a 10-12 collected	
	366						Collected	
15								_1:
	<b>155</b> 2	Grout					9 ft recovery	
	1665						3 It lecovery	
						0.2		
20			Li	ght grey, fine to coarse SAND, some fine				20
				coarse Gravel, little Cobble and Silt; wet				
	300		********			0.2		
	1200	190°E				0.2		
	<b>155</b> 3	<b>1</b>						
25	165			ght grey, fine to coarse SAND, some fine				2
		121' of Schedule 40		coarse Gravel; wetark brown, PEAT with organic roots,	- [	0.1		
		PVC Riser		ome light grey fine Sand and Silt;	í l		9 ft recovery	
				oisture not noted	J_	0.0		
	398			rown, fine to coarse SAND, some fine to parse Grave, trace silt; wet, loose	!			
30		190°E		rown, fine SAND, little fine to medium	.}			3
	1500	100E		ravel; wet		0.0		
	(66°)							
			********* B	rown, fine to coarse SAND, little fine to				
 35				edium Gravel; moist to dry				 3
35			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0.0		3
				ark grey, fine to coarse SAND, little Silt	-		9 ft recovery	
		190°E		nd fine to medium Gravel; wet, loose		0.0		
	100%	<b>1</b> 000000000000000000000000000000000000				0.0		
40				rown, fine to coarse SAND, little fine to				4
				parse Gravel, trace medium to coarse and and silt; moist				
				and and on, motor		2.5		
						0.0		
		190°E	********					
45	1663	<b>1</b> 005	• • • • • • • • • • • • • • • • • • • •	,				4
				rown, fine to coarse SAND, some fine to parse Gravel; trace silt; moist to dry		0.0		
				rown to red, fine to coarse SAND, some	-'	0.0	2 ft recovery; hard drilling	
50			fil	ne to coarse Gravel and broken Boulder,		0.0	6 ft recovery band dellin	
			tr.	ace silt; dry, dense	J		6 ft recovery; hard drilling	
50	ROD!	KOOX						_50



Page 2 of 6 WELL CONSTRUCTION LOG

Page 2 of	6			INSTRUCTION LOG				
WELL NO. CFMW-01	16a	Not Measure	d	LONGITUDE Not Measured				
PROJECT NO./NA	ME	•		LOCATION				
2476.0001Y / 0 APPROVED BY	CFAC RI/F	S Phase 1 LOGGED BY		2000 Aluminum Drive				
L. Jensen		A. Hoffmann		Columbia Falls, Montana				
		•			Blow	PID		
Depth, feet			Graphic Log	Visual Description (continued)	Counts per 6"	Values (ppm)	REMARKS	
				Brown, fine to coarse SAND and fine to coarse Gravel, trace silt; dry, loose		0.0		
				(continued)	-			
			. 6	Brown, fine to coarse SAND and fine to coarse GRAVEL (pulverized), trace silt;		0.0		
55				N dry, loose Brown, fine to coarse SAND, some			10 ft recovery	_5
				pulverized Boulder and Cobble, little fine to				
				coarse Gravel; dry, loose				
50						0.0		
 55				Dark grey, fine to coarse SAND, some			10 ft recovery; hard drilling	
		Grout		Cobble and fine to coarse Gravel, trace silt; wet, loose				
						0.0		
			********			5.5		
0								
				Brown, fine to coarse SAND, some		0.0		
				\ pulverized Boulder and Cobble; dry/ Brown, coarse SAND, some fine to coarse //	_	0.0		
				Gravel; trace cobble; moist		0.0		
· · · · 75			*****	Brown, fine to coarse SAND, some fine to coarse Gravel and Cobble (pulverized),	-	0.0	8 ft recovery	
	- 256	121' of		\little silt; dry, dense			,	
		Schedule 40 PVC Riser		Brown, coarse SAND, some fine to medium Gravel, trace fine to medium sand;				
				wet, loose				
 O								
						0.0		
	<i>199</i> 2							
 E	383							
5								_8
				No Recovery; slough (graded coarse sand			No Recovery	
	<b>1993</b>			through coarse gravel)				
								٠.
<u> </u>								_5
• • • •								
5								_9
	<b>1553</b>			No Recovery; slough (coarse sand and fine			No Recovery	
		1602		to coarse gravel)			<b>,</b>	
						00		
00_	166					0.0		1
	<b>188</b>		•••••	Brown, fine to coarse SAND, some fine to				
	<del>188</del> 2			coarse Gravel and Cobble, trace silt; wet, medium dense				
05				modulii uchac		0.0		10
							9 ft rangue	
	500	500	• . • . • . • . • . • . • . • . • . • .				8 ft recovery	



Page 3 of 6 WELL CONSTRUCTION LOG

Page 3	of <b>6</b>		LL CC	NSTRUCTION LOG				
WELL NO.  CFMW-	-016a	Not Measure	d	LONGITUDE  Not Measured				
PROJECT NO./	NAME		<u> </u>	LOCATION				
APPROVED BY	/ CFAC RI/FS I	Phase 1 LOGGED BY		2000 Aluminum Drive				
L. Jensen		A. Hoffmann		Columbia Falls, Montana				
	-				5.	DID		
Depth, feet			Graphic Log	Visual Description (continued)	Blow Counts per 6"	PID Values (ppm)	REMARKS	
		<b>X</b> E		Brown, fine to coarse SAND, trace cobble; wet, loose (continued)				
110				vici, isoso (conunaca)		0.0		 11
		<b>X</b>				0.0		
								•••
		<b>2</b>	*******					
				Brown, fine to coarse SAND, some fine to coarse Gravel; wet, loose				
115	SULE IV	<u>)</u>				0.0		1
		<ul> <li>Bentonite Plug</li> </ul>		Brown, fine to coarse SAND; wet, loose			10 ft recovery	•••
						0.0		
120				Brown, fine to coarse SAND, little Silt, little				12
				Cobble and fine to coarse Gravel; moist,				
				medium dense		0.0		•••
		5 of 20-Slot	·····					
125		Schedule 40 PVC Screen		Brown, fine to coarse SAND, little Silt and fine to coarse Gravel; dry, medium dense		0.0		12
		Well Plug		Brown, fine to coarse SAND, some Sllt and	-	0.0	2 # ********	
		\$3		fine to coarse Gravel; dry, loose	_	0.0	3 ft recovery	
				Orange brown, fine to coarse SAND, some Silt, little fine Gravel and Clay; moist,		0.0		
130		<b>X</b>		dense/stiff			10 ft recovery	13
		<del>2</del>		Orange brown, fine to coarse SAND and SILT, some fine Gravel and Clay; moist,				
		<b>2</b>		dense/stiff				
		<del>Z</del>						
135		8				0.0		 13
	15025021							
	15535535	Ž.		Orange brown, fine to coarse SAND and	-		12 ft recovery	
140	16526528	Ö		SILT, some fine Gravel and Clay; moist,			12 It recovery	14
	1603603	Ħ	····	dense/stiff				•••
	REEREE	Ħ						
 	<b>1659659</b>	Ħ						
145		QQ Q← Grout				0.0		14
		<b>X</b>						•••
150		<b>8</b>						
	被名数名	33						
150	が発発し	**						15
		<b>88</b>					15 ft recovery	
		<del>2</del>						
		***						
155		<b>\$</b>						<u>15</u>
		\$2						
		<b>3</b>						
		<b>X</b>				0.0		
160		#				0.0		16
		8						
		<del>\</del>						
		25						
	(65×65×1	Ť.						



Page 4 of 6 WELL CONSTRUCTION LOG

Page 4 c		VELL CO	NS IRUCTION LOG			
CFMW-0	)16a   LATITUDE Not Meas	ured	LONGITUDE Not Measured			
PROJECT NO./N/	AME		LOCATION			
APPROVED BY	CFAC RI/FS Phase 1 LOGGED BY		2000 Aluminum Drive			
L. Jensen	A. Hoffma		Columbia Falls, Montana			
				Blow PID		
Depth, feet		Graphic Log	Visual Description	Counts Value per 6" (ppm)	s REMARKS	
165	30083008300		(continued) Orange brown, fine to coarse SAND and	per o (ppm)		16
			SILT, some fine Gravel and Clay; moist, dense/stiff <i>(continued)</i>			
			denserstin (commuea)		15 ft recovery	
170						 17
	100300300					
175				0.0		 <u>17</u>
	Grout					
180	165765865					 <u>1</u> 8
	165765765		Orange brown, fine to coarse SAND and SILT, some fine Gravel and Clay; moist,		15 ft recovery	
			dense/stiff			
185		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				 18
100		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0.0		
190						<u>19</u>
405						
195						<u>19</u>
					15 ft recovery	
200						20
		, , , , , , , , , , , , , , , , , , ,				
		, , , , , , , , , , , , , , , , , , ,				
				0.0		
205						20
210		, , , , , , , , , , , , , , , , , , ,				21
210		0,000			15 ft recovery	
	12082282X					
215						21
l						
220		• • • • • • • • • • • • • • • • • • • •		0.0		
220						22
	346346346					



Page 5 of 6 WELL CONSTRUCTION LOG

Page <b>5</b> o	of 6		NSTRUCTION LOG			
CFMW-0	16a Not N	leasured	LONGITUDE Not Measured			
PROJECT NO./N/		4	LOCATION			
APPROVED BY	CFAC RI/FS Phase	ED BY	2000 Aluminum Drive			
L. Jensen		ffmann	Columbia Falls, Montana			
Depth,		Graphic	Visual Description	Blow Counts V	PID alues	REMARKS
feet		Log	(continued)		(ppm)	
			Orange brown, fine to coarse SAND and SILT, some fine Gravel and Clay; moist,			
			dense/stiff (continued)			
225						<u>2:</u>
					15 ft reco	 overv
					10 11 1000	• ••
230						<u>2</u> :
	Grand Grand	out				
					0.0	
235						<u>2</u>
240						 <u>2</u>
					457.51	
					15 ft reco	overy
245						 <u>2</u> .
		0 0 0 0 0 0				
250					0.0	 <u>2</u> :
		*****				
	1929250 1929250					
		**************************************				
255	1925 P. 200					 <u>2</u> !
					15 ft reco	overy
		• • • • • • • • • • • • • • • • • • • •			0.0	
260		0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	Reddish brown, fine to coarse SAND and			 <u>2</u> 1
			SILT, some fine Gravel and Clay; moist, dense/stiff			<u> </u>
			auriociotiii			
					0.0	
265						2
 265 						<u>2</u>
		<u> </u>				
270_			Orange brown, fine to coarse SAND and SILT, some fine Gravel and Clay; moist,			••
			dense/stiff		0.0	
210						<u>2</u>
		0,0,0,0,0,0			15 ft reco	overy
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	\$555555 5555555					
2/5		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				<u>2</u>
275	100 May 100 Ma					
		<u>_</u>				
	\$00\\$00\\$00	*****				



300

BORING/FEET CFAC BORING LOGS.GPJ ROUX.GDT 7/15/16

209 Shafter Street Islandia, NY 11749 Telephone: (631) 232-2600 Fax: (631) 232-9898

WELL CONSTRUCTION LOG Page 6 of WELL NO. LATITUDE LONGITUDE CFMW-016a Not Measured Not Measured PROJECT NO./NAME LOCATION 2476.0001Y / CFAC RI/FS Phase 1 2000 Aluminum Drive LOGGED BY APPROVED BY Columbia Falls, Montana L. Jensen A. Hoffmann Blow PID Depth, Graphic Values Visual Description Counts per 6" REMARKS feet Log (ppm) (continued) 0.0 Orange brown, fine to coarse SAND and 280 SILT, some fine Gravel and Clay; moist, 280 dense/stiff (continued) . . . . .. 285 285 Grout . . . . .. 7 ft recovery . . . . .. 290 290 0.0 . . . . .. 7 ft recovery 295 295 0.0

...

300